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NOTICE OF ALLOWANCE AND FEE(S) DUE

21839 7590 0225/2009 BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404

EXAMINER						
LI, BAO Q						
ART UNIT	PAPER NUMBER					
1648						

DATE MAILED: 02/25/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,431	12/05/2005	Anne Fournillier	034548-001	1577

TITLE OF INVENTION: COMPOSITION COMPRISING THE POLYPROTEIN NS3/NS4 AND THE POLYPEPTIDE NS5B OF HCV, EXPRESSION VECTORS INCLUDING THE CORRESPONDING NUCLEIC SEQUENCES AND THEIR THERAPEUTIC USE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used to correspondence including d below or directed off tions	for transmitting the IS ig the Patent, advance herwise in Block 1, by	SSUE FEE and PUBLICAT e orders and notification of y (a) specifying a new corre	TON FEE (if requir maintenance fees wi spondence address;	ed). B ill be r and/or	locks 1 through 5 st nailed to the current (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)			Fee	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus- have its own certificate of mailing or transmission.			
POST OFFICE I	7590 02/25 INGERSOLL & 3OX 1404 , VA 22313-1404		I b	Certify that this	ificate	of Mailing or Trans	nission deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	3	ATTOE	RNEY DOCKET NO.	CONFIRMATION NO.
10/559,431	12/05/2005		Anne Fournillier			034548-001	1577
			LYPROTEIN NS3/NS4 AND ENCES AND THEIR THER		DE N	S5B OF HCV, EXPI	RESSION
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	05/26/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	1			
LI, BA		I648	424-149100	-			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attack	inge of Correspondence "Indication form and Use of a Custome A TO BE PRINTED O	(2) the name of a sing registered attorney or 2 registered patent att listed, no name will be N THE PATENT (print or ty	o 3 registered patent ively, de firm (having as a agent) and the name orneys or agents. If n printed.	attorn membe s of up to name	era 2oto e is 3	Suppose has been filed for
(A) NAME OF ASSIG	GNEE		tee data will appear on the p NOT a substitute for filing an (B) RESIDENCE: (CIT'	Y and STATE OR CO	DUNT	RY)	up entity Government
4a. The following fee(s): Issue Fee Publication Fee (N	o small entity discount j	permitted)	4b. Payment of Fee(s): (Ple A check is enclosed. Payment by credit ca The Director is hereboverpayment, to Dep	rd. Form PTO-2038 y authorized to charg	is attac	ched. equired fee(s), any de	
	s SMALL ENTITY state	as. See 37 CFR 1.27.	☐ b. Applicant is no los				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be acce ites Patent and Tradem	pted from anyone other than tark Office.	the applicant; a regis	tered a	ttorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration No			
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	CFR 1.311. The inform U.S.C. 122 and 37 Cl USPTO. Time will v rden, should be sent to O NOT SEND FEES C	ation is required to obtain or FR 1.14. This collection is es ary depending upon the indi of the Chief Information Offic OR COMPLETED FORMS T	retain a benefit by the stimated to take 12 m vidual case. Any con- er, U.S. Patent and T O THIS ADDRESS.	e publi inutes nments fradem SENE	to which is to file (and to complete, including s on the amount of tit ark Office, U.S. Depa of TO: Commissioner	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER	
			1648		

DATE MAILED: 02/25/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 204 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 204 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/559,431 FOURNILLIER ET AL. Notice of Allowability Examiner Art Unit BAOTI 1648 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 11/28/228. The allowed claim(s) is/are 22-27,29 and 36-41. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

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DETAILED ACTION

The amendment and response filed on Nov. 28, 2008 have been acknowledged. Claims 22-27, 29, 36, 38-40 have been amended. New claim 41 has been added. Claims 1-21, 28, 30-35 have been canceled. Claims 22-27, 29, 36-41 are pending and considered by the examiner.

Claim Rejections - 35 USC § 102/103 Withdrawn

 The rejection of claims 21-23, 26-29, 32-34, 36-40 under 35 U.S.C. 103(a) as being unpatentable over WO 01/30812A2 or US Patent No. 7,285,539B2 or US Patent No. 6,562,346B1 all to Palliard et al. has been removed in view of Applicants' amendment and persuasive argument.

Claim Rejections - 35 USC § 101Withdrawn

 The rejection of claim 28 under 35 U.S.C. 101 has been withdrawn necessitated by Applicants' amendment.

Claim Rejections - 35 USC § 112 Withdrawn

3. The rejection of claims 32 and 34 under 35 U.S.C. 112, first paragraph has been withdrawn in view of Applicants' amendment and persuasive argument.

4.

Claims 22-27, 29, 36-41 are allowed.

6.

REASONS FOR ALLOWANCE

- The following is an examiner's statement of reasons for allowance: In contrast to the
 most closest art that teaches HCV NS5a is necessary for inducing an HCV immune response
 cited in the previous office action, Applicants insisted the claimed invention as an unexpected
 result that administering DNA construct encoding the HCV polyproteins NS3/NS4 and NS5b
 without NS5a in vivo is sufficient enough to induce a significant immune response against HCV
 infection.
- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/559,431

Art Unit: 1648

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BAO LI whose telephone number is (571)272-0904. The examiner can normally be reached on 6:30 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bao Qun Li/
Examiner, Art Unit 1648
/Bruce Campell/
Supervisory Patent Examiner, Art Unit 1648